

ABSTRACT OF THE DISCLOSURE

An apparatus decomposes a pollutant and includes a case for housing a subject to be treated, a light irradiation device for irradiating the subject with light, and a light reflecting unit for reflecting the light irradiated by the light irradiation device, in which the light reflecting unit is arranged so as to reflect light passing through the subject to thereby irradiate the subject with the reflected light. Another apparatus decomposes a pollutant and includes a case for housing a subject to be treated and a light irradiation means for irradiating the subject with light, in which the case has a light-reflecting surface. Another apparatus decomposes a pollutant and includes a first case for housing a subject to be treated, a light irradiation device for irradiating the subject with light, and a second case for housing the first case and the light irradiation device, in which the second case has a light-reflecting surface. A method decomposes a pollutant by housing a subject to be treated in a case having a light-reflecting surface, irradiating the subject with light, and thereby decomposing a pollutant in the subject. Another method decomposes a pollutant by housing a subject to be treated in a first case, irradiating the subject with light by a light irradiation device, and thereby decomposing a

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1. The first part of the paper (Sections 1-3) introduces the problem and the main results. Section 1 discusses the motivation and the main results. Section 2 discusses the main results. Section 3 discusses the main results.